MATH 0304 **NAME:_____**

PRACTICE TEST 5, CHAPTER 3
Beginning and Intermediate Algebra by Elayn Martin-Gay, 4th edition

1. Complete the ordered pair (x, 1) to satisfy the equation $y = 5x - 2$.

2. Complete the ordered pair (0, y) to satisfy the equation $2x - 3y = 4$.

3. Construct a table of values then graph the equation $y = -4x + 1$.
   Let $x = -2$, 0 and 1.

4. Graph the line $y = \frac{-3}{4}x + 2$ and label two points on your graph.

5. Graph the line $y = -x$ and label two points on your graph.

6. Graph the following equation by finding the x and y-intercepts.
   Label the intercepts on your graph. $3x - y = 6$

7. Graph the following equation by finding the x and y-intercepts.
   Label the intercepts on your graph. $3x - 4y = 12$

8. Graph the equation $y = 1$ and label two points on your graph.

9. Graph the equation $3y = -9$ and label two points on your graph.

10. Graph the equation $x + 4 = 0$ and label two points on your graph.

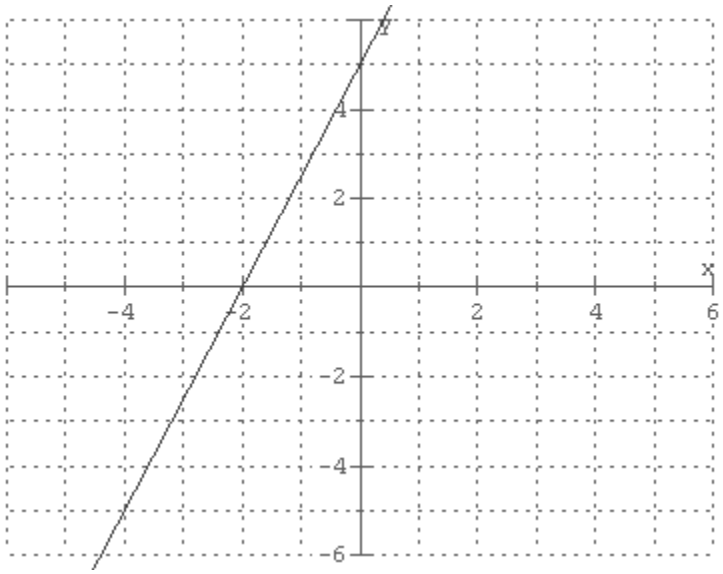
11. Find the slope of the line passing through the points (-3, 0) and (-3, -9).

12. Find the slope of the line passing through the points (1, -2) and (-4, 5).

13. Find the slope of the line passing through the points (7, 2) and (-7, 2).

(more on back)

14. What is the slope of the line shown below?



15. Find the slope of the line: $4x-2y=3$

16. Find the slope of the line: $3x+y=10$

17. Determine whether lines L_1 and L_2 are parallel, perpendicular or neither.
L_1: $x+3y=6$ L_2: $3x-y=0$

18. Determine whether lines L_1 and L_2 are parallel, perpendicular or neither.
L_1: $2x+y=0$ L_2: $y-2x=-2$

19. Determine whether lines L_1 and L_2 are parallel, perpendicular or neither.
L_1: $5y+5x=10$ L_2: $x+y=1$

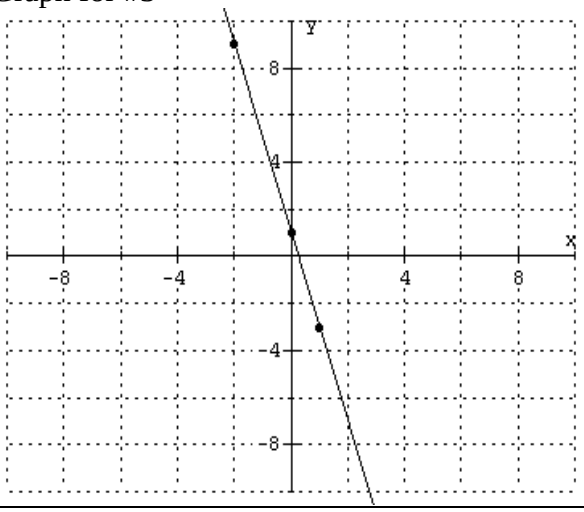
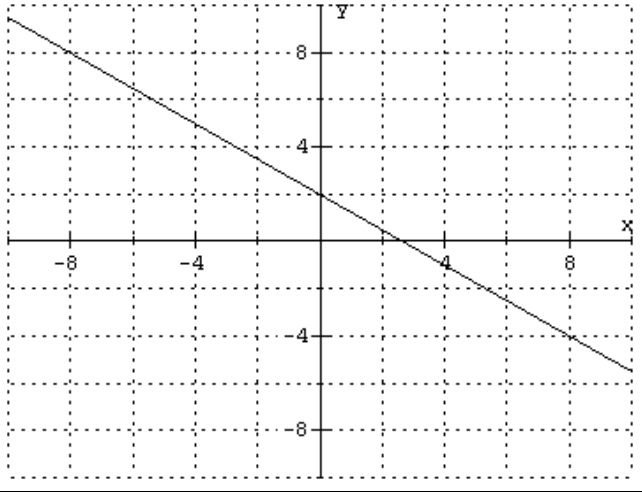
20. Write an equation of the line whose slope $m=\frac{-1}{2}$ and whose y-intercept is (0, 7).

21. Graph the equation of the line $y=\frac{3}{4}x-1$ by the slope-intercept method.
Label two points on the line.

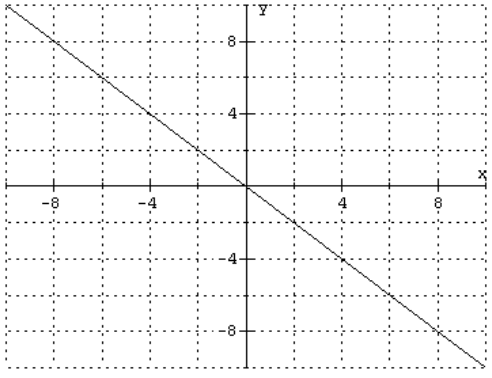
22. Find an equation of the line with slope $m=-5$ that passes through (1, -1).
Write the equation in slope-intercept form $y = mx + b$.

23. Find an equation of the line through the points (0, 3) and (-4, 0).
Write the equation in slope-intercept form $y = mx + b$.

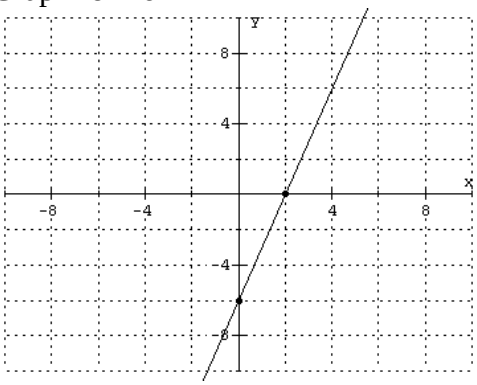
MATH 0304
PRACTICE TEST 5 ANSWERS

1. $\frac{3}{5}$		13. 0
2. $\frac{-4}{3}$		14. $\frac{5}{2}$
3. See graph below		15. 2
4. See graph below		16. -3
5. See graph on next page		17. perpendicular
6. See graph on next page		18. neither
7. See graph on next page		19. parallel
8. See graph on next page		20. $y = \frac{-1}{2}x + 7$
9. See graph on next page		21. See graph on next page
10. See graph on next page		22. $y = -5x + 4$
11. undefined		23. $y = \frac{3}{4}x + 3$
12. $\frac{-7}{5}$		
Graph for #3 		Graph for #4 

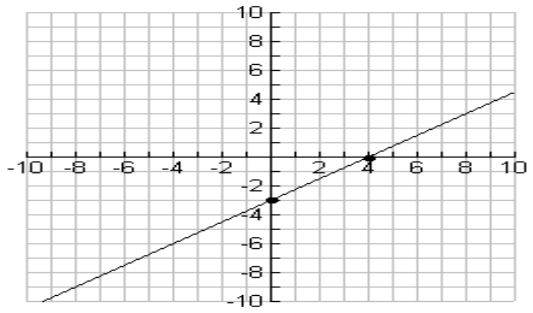
Graph for #5



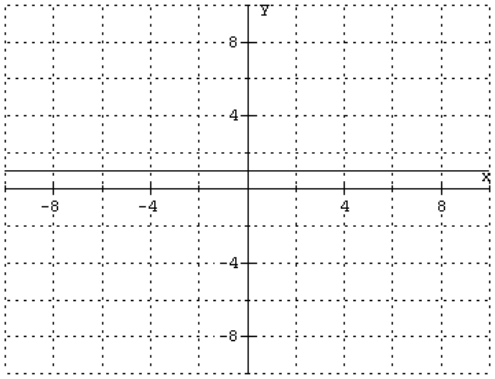
Graph for #6



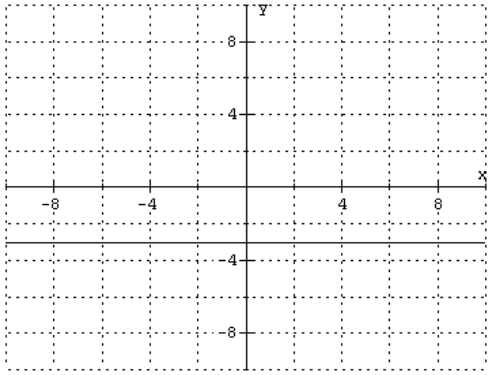
Graph for #7



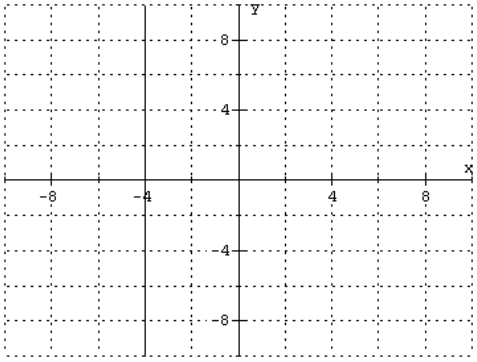
Graph for #8



Graph for #9



Graph for #10



Graph for #21